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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/035,664	12/28/2001	Mark Muhlestein	112056-0022	4613
24267	7590 10/31/2006		EXAMINER	
CESARI AND MCKENNA, LLP			NGUYEN, THAN VINH	
88 BLACK FALCON AVENUE BOSTON, MA 02210			ART UNIT	PAPER NUMBER
			2187	
			DATE MAILED: 10/31/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)		
Office Action Summary		10/035,664	MUHLESTEIN ET AL.		
		Examiner	Art Unit		
		Than Nguyen	2187		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SH WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING Done insions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory period or the to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may a will apply and will expire SIX (6) MO , cause the application to become A	CATION. reply be timely filed  NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).		
Status					
2a)□	,—	action is non-final.			
Dispositi	ion of Claims		·		
5)□ 6)⊠ 7)□	Claim(s) 6-11,13-17,20,23 and 26-30 is/are pe 4a) Of the above claim(s) is/are withdray Claim(s) is/are allowed.  Claim(s) 6-11,13-17,20,23 and 26-30 is/are rej Claim(s) is/are objected to.  Claim(s) are subject to restriction and/o	wn from consideration.			
Applicati	ion Papers				
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>28 December 2001</u> is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	re: a)⊠ accepted or b)[ drawing(s) be held in abeya tion is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).		
Priority (	under 35 U.S.C. § 119				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
2) Notice 3) Information	et(s)  ce of References Cited (PTO-892)  ce of Draftsperson's Patent Drawing Review (PTO-948)  mation Disclosure Statement(s) (PTO/SB/08)  er No(s)/Mail Date	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application		

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### **DETAILED ACTION**

1. This is a response to the amendment, filed 8/15/06.

2. Claims 6-11, 13-17, 20,23, and 26-30 are pending.

#### Continued Examination Under 37 CFR 1.114

3. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 8/15/06 has been entered.

# Response to Amendment/Arguments

4. Applicant's arguments with respect to claims 6-11, 13-17, 20,23, and 26-28 have been considered but are moot in view of the new ground(s) of rejection. Applicant's amendment introduced new limitations that were not previously addressed.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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5. Claims 6-11, 13-17, 20,23,26-30 are rejected under 35 U.S.C. 102(e) as being anticipated by Wesinger, Jr. et al (US 2001/0011304 A1), hereinafter as Wesinger.

As to claim 6,20,23,26-30:

6. We singer teaches a method and means for creating and maintaining a plurality of virtual servers within a server, the method comprising the steps of:

partitioning resources of the server to establish an instance of each virtual server by allocating units of storage and network addresses of network interfaces of the server to each instance of the virtual server, and sharing an operating system and a file system of the server among all of the virtual servers (implementing a physical machine into multiple virtual hosts; 2/23-24);

enabling controlled access to the resources using logical boundary checks and security interpretations of those resources within the server by comparing configuration information of a unit of storage requested by a particular vserver with the resources allocated to that particular vserver (performing access control to allocated resources; 3/39-41); and

providing a virtual server context structure including information pertaining to a security domain of the virtual server (rules database in configuration file; 2/23-24l 3/38-41).

As to claim 7:

7. We singer teaches the step of providing a vfstore list of the virtual server context structure, the vstore list comprising pointers to vfstore soft objects, each having a pointer that references a path to a unit of storage allocated to the vfiler (configuration file; 2/23-24; 3/38-39). As to claim 8:

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Wesinger teaches providing a vfnet list of the virtual server context structure, the vfnet list comprising pointers to vfnet soft objects, each having a pointer that references an interface address data structure representing a network address assigned to the virtual server (each virtual host has different IP address; 3/39).

As to claim 9-10,15,16:

- 8. We singer teaches performing a virtual server boundary check to verify that a virtual server is allowed to access certain storage resources of the filer (security access check; 4/48-51).

  As to claim 11:
- 9. We singer teaches determining whether the virtual server is authorized to access the unit of storage; if the virtual server is not authorized to access the requested unit of storage, immediately denying the request (deny unauthorized request; 4/51); otherwise, allowing the request; and generating file system operations to process the request (process authorized request; 4/52).

As to claim 13,14,17:

10. We singer teaches a system adapted to create and maintain a plurality of virtual servers within a server, the system comprising:

a storage media configured to store information as units of storage resources, the units of storage resources allocated among each of the virtual servers (physical machine partitioned into virtual hosts; Fig. 1; 2/23-24);

one or more network interfaces assigned one or more network address resources, the network address resources allocated among each of the virtual servers (each virtual host has separate network address; 2/24; 3/39);

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an operating system having a file system resource adapted to perform a boundary check to verify that a request is allowed to access to certain units of storage resources on the storage media, each virtual server allowed shared access to the file system, where the boundary check is performed by comparing configuration information of a unit of storage requested by a particular vserver with the one or more units of storage resources and the one or more network address resources allocated to that particular server (perform security access control to storage resources; 3/39-41);

a context data structure provided to each virtual server, the context data structure including information pertaining to a security domain of the virtual server that enforces controlled access to the allocated and shared resources (rules database in configuration file enforcing access control; 2/23-24; 3/38-41); and

a processing element coupled to the network interfaces and storage media, and configured to execute the operating and file systems to thereby invoke network and storage access operations in accordance with results of the boundary check of the file system (physical network resource to perform storage access operations; Fig. 1; 2/23-24;4/52).

#### **Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Than Nguyen whose telephone number is 571-272-4198. The examiner can normally be reached on M-F 8-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Donald Sparks can be reached on (571) 272-4201. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Than Nguyen
Primary Examiner
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